

XiaoFeng Wang

Curriculum Vitae

Informatics West
901 East 10th Street

Bloomington, IN 47408-3912
<http://www.informatics.indiana.edu/xw7>

EDUCATION

2004	Carnegie Mellon University Ph.D. Electrical and Computer Engineering	Pittsburgh, USA
1996	Shanghai Jiao Tong University M.S. Computer Science	Shanghai, PRC
1993	Nanjing University of Aeronautics and Astronautics B.S. Computer Science	Nanjing, PRC

PROFESSIONAL EXPERIENCE

11/2017 —	Director, Center for System Security and Data Privacy
1/2010 —	Co-Director, Center for Security Informatics
1/2010 — 12/2010	Program Director, Security Informatics
11/2017—	Rudy Professor of Computer Science, Engineering and Informatics
7/2015 —	Professor
7/2010 — 6/2015	Associate Professor
8/2004 — 6/2010	Assistant Professor School of Informatics, Computing and Engineering Indiana University at Bloomington
1/1997 — 8/1997	IT Specialist Hewlett-Packard Computer Products (Shanghai) Co.Ltd
3/1996 — 1/1997	Software Engineer Shanghai Venus Software co., LTD

PROFESSIONAL SERVICE

- Vice Chair, ACM Special Interest Group on Security, Audit and Control (SIGSAC)
- Program Co-Chair, the ACM Conference on Computer and Communications Security (CCS'18 and CCS'19)
- Program committee member, the IEEE Symposium on Security and Privacy (S&P'10, 11, 12, 13, 14, 18, 19)
- Area PC Chair, the IEEE Conference on Communications and Network Security (CNS'19)
- Panel Chair, the IEEE Conference on Communications and Network Security (CNS'18)
- Panelist, the IEEE Conference on Communications and Network Security (CNS'17)
- Founding organizer (with my colleagues at IU and UCSD): iDASH Genome Privacy Challenges (www.humangenomeprivacy.org)
- Steering committee member, International Workshop on Genome Privacy and Security (GenoPri)
- Program committee member, the USENIX Security Symposium (Security' 17)
- Program Co-Chair, the 11th ACM Asia Conference on Computer and Communications Security (ACM AsiaCCS'16)
- Program Chair, the 11th International Conference on Security and Privacy in Communication Networks (SecureComm'15)
- Workshop Co-Chair, the 22nd ACM Conference on Computer and Communication Security (CCS'15)
- General Chair, the 13th Privacy Enhancing Technologies Symposium (PETS'13)
- Associate Editor, IEEE Transactions on Dependable and Secure Computing (TDSC), since December, 2014
- Invited panelist, Security and Privacy Challenges in Health Informatics, the NSF SaTC PI meeting 2015.
- Program committee member, the 17th International Symposium on Research in Attacks, Intrusions and Defenses (RAID'15)
- Program committee member, the Annual Network and Distributed System Security Symposium (NDSS' 13, 14, 15, 16, 17)
- Program committee member, the International World Wide Web Conference, Security and Privacy Track (WWW'09, 12, 14, 15)
- Member, PoPETs/PETS Advisory Board.

- Program committee member, the ACM Symposium on Information, Computer and Communications Security (ASIACCS'12)
- Member, PET Award 2012 committee
- Program committee member, the International Conference on Distributed Computing Systems (ICDCS'10, 11)
- Chair, Local arrangement committee, CCS'11
Member, Patron and Industry Outreach, CCS'10
Chair, Regional arrangement committee, CCS'09
- Program committee member, the Workshop on Security and Privacy in Medical and Home-Care Systems 2009
- Program committee member, the International Conference on Security and Privacy in Communication Networks (SecureComm'08, 09)
- Program committee member, the ACM Conference on Computer and Communication Security (CCS'08, 10, 15, 16, 17)
- Co-Chair, the I3P Workshop on Insider Threats in the Networked World (2008)
- Local arrangement, the Fifth Midwest Security Workshop (Spring, 2008), Program chair, the Second MSW (Fall, 2006) and program committee members, MSW (2006 – 2008)
- Program committee member, the Fourth International Conference on Information Systems Security (ICISS 2008)
- Program committee member, the Third International Conference on Internet Monitoring and Protection (ICIMP'08)
- Steering committee member, NSF Biomedical Informatics Workshop (2007)
- Program committee member, the Workshop on Privacy in the Electronic Society (WPES'06-08, 12)
- Program committee member, the IEEE International Symposium on Dependable Autonomic and Secure Computing (DASC'06 and '07)
- Program committee member, the 8th International Conference on Information and Communications Security (ICICS '06)
- Program committee member, the 5th International Conference on Cryptology and Network Security (CANS '06)
- Program committee member, the International Workshop on Incentive Based Computing (IBC'05 and '06)
- Program committee member, the 4th International Conference on Applied Cryptography and Network Security (ACNS'06)
- Program committee member, the 16th Annual International Symposium on Algorithms and Computation (ISAAC'05)

- Program committee member, ACM Workshop on Wireless Security 2005 (WiSe'05).
- Program committee member, the International Joint Conference on Autonomous Agents and Multi Agents Systems (AAMAS'04 and 05).
- Panelist: Attacks on and Security Measures for Ad Hoc Wireless Networks, American Association for the Advancement of Science annual Conference 2005.
- Program committee member of IEEE/ACM First International Workshop on Broadband Wireless Services and Applications (BroadWISE 2004)
- Paper reviewer for the IEEE/ACM Transactions on Networking, the ACM Transactions on Information and System Security, the IEEE Transactions on Dependable and Secure Computing, the IEEE Transactions on Parallel and Distributed Systems, International Journal of Knowledge and Information Systems, the IEEE transactions on Knowledge and Data Engineering, Electronic Commerce Research Journal, ACM Conference on Computer and Communication Security, RSA CT, IEEE INFOCOM, IEEE GLOBECOM, ACM International Conference on Information Security, Workshop on Privacy Enhancing Technologies, International Conference on Security and Cryptography for Networks, The IEEE International Conference on Communications, Pacific Rim International Workshop on Multiagent Systems, Pacific Rim International Conference on Artificial Intelligence and IFIP World Computer Congress.
- Senior member of IEEE and member of ACM

TEACHING EXPERIENCE

Fall 2005-	I430/520 and B649 "Security for Networked Systems" (An upper-level undergraduate and graduate course) Indiana University at Bloomington
Spring 2007-	I521 "Malware: Threat and Defense" (A graduate course) Indiana University at Bloomington
Spring 2006- 2009	I231 "Mathematic Foundations for Cybersecurity" (A second-year undergraduate course) Indiana University at Bloomington
Spring 2005	I400 "Introduction to Information Security" (A third and fourth year undergraduate course) Indiana University at Bloomington
Spring 2002	Teaching assistant for 18440 "Internet Security" (An upper-level undergraduate and graduate course)

INTERNAL SERVICE

1. Facility Committee, Informatics (Fall 2004 – Spring 2006)
 2. Faculty Hiring Committee, Informatics (Fall 2004 – Spring 2005, Fall 2008 – Spring 2009, Fall 2011)
 3. Admission and Awards Committee, Computer Science (Fall 2004 –)
 4. Graduate Admissions and Financial Aid Committee, Informatics (Fall 2006 – Spring 2008, Fall 2014)
 5. Graduate Education Committee, Computer Science (Fall, 2010 – 2012, 2014 –)
 6. Security Contact for Health Informatics Program (Spring, 2011 –)
 7. Chair, Faculty Hiring Committee (security track) (Fall 2013 – Spring 2014)
 8. Chair, Admission and Awards Committee, Computer Science (Fall 2014 –)
 9. Program Director, Security Informatics Program (2010)
 10. Director, Center for Security Informatics (2010 –)
-

IMPACTS OF MY RESEARCH

My research frequently receives the attention from the mainstream media, including CNN, MSNBC, PC World, Slashdotted, CNet News, etc. Here are the links to incomplete lists of media coverage.

Genome Privacy Competition:

<https://www.genomeweb.com/informatics/new-community-challenge-seeks-evaluate-methods-computing-encrypted-genomic-data>

<http://www.nature.com/news/extreme-cryptography-paves-way-to-personalized-medicine-1.17174>

MassVet: <http://sit.soic.indiana.edu/en/2015/09/06/massvet-usenix/>

XARA Threats to Mac OS X and iOS, and also Android Secure Upgrading:

<http://sit.soic.indiana.edu/en/2015/09/07/xara-ccs/>

<https://luyixing.weebly.com/media-coverage.html>

Privacy in Dissemination of Human Genomic Data:

[News Release by Ontario's Information and Privacy Commissioner](#) and [BioSpace](#)

Security Analysis of Cashier-as-a-Service Systems:

<http://www.informatics.indiana.edu/xw7/record/impacts/CaaS.htm>

Sound Malware for Android Phones

<http://www.informatics.indiana.edu/xw7/record/impacts/Soundcomber.htm>

Facebook Authorization Flaw

<http://www.informatics.indiana.edu/xw7/record/impacts/Facebook.htm>

Side-Channel Information Leaks in Web Applications

<http://www.informatics.indiana.edu/xw7/record/impacts/SideChannel.htm>

Puzzle Auction

<http://www.informatics.indiana.edu/xw7/record/impacts/PuzzleAuction.htm>

HONORS

2017 James H. Rudy Professorship, Indiana University

2016 Best Paper Award in Applied Cyber Security Research, 3rd Place, CSAW'16 (NYU-Poly Cyber Security Awareness Week): for the work on cyber threat intelligence gathering

2014 Best Paper Award in Applied Cyber Security Research, 3rd Place, CSAW'14 (NYU-Poly Cyber Security Awareness Week): for the work on security risks in Android customization

2014 [Third place in National Security Innovation Competition](#): for the work on Android secure upgrading

2013 [Finalist](#) for the Best Applied Security Paper Award, CSAW'13 (NYU-Poly Cyber Security Awareness Week): for the work on dedicated hosts on malicious web infrastructures

2011 Award for Outstanding Research in Privacy Enhancing Technologies ([the PET Award](#)): for my research on Genome Privacy

2011 PET Award runner-up: for my research on side-channel information leaks in web applications

2011 Best Practical Paper Award, the 32nd IEEE Symposium on Security and Privacy: for my research on logic flaws in hybrid web applications

2006 Fast-track submission to the ACM Transactions on Information System Security as one of the best papers of the ACM Conference on Computer and Communications Security 2006: for my work on malware detection

SELECTED INVITED TALKS

2018 Keynote at the 3rd Singapore Cybersecurity R&D Conference (SG-CRC'18)

2018 Keynote at the 6th Midwest Security Workshop

2018 Keynote at the 1st Riverside Security and Privacy Workshop

2018 Keynote at the SRC Forum on Smart City

2018 Invited Talk at the 13th ACM Asia Conference on Computer and Communications Security (AsiaCCS'18)

2016 Keynote at the 10th Central Area networking and Security Workshop (CANSec'16).

2016 Invited seminar, Chinese University of Hong Kong

2016 Seminar talk, Northwestern University

2016 Seminar talk, University of Southern California

2015 Seminar, Northeastern University

2014 TRUST Security Seminar, University of California, Berkeley

2014 Invited talk. Narus Inc.

2014 Seminar talk. Purdue University

2013 Seminar talk. University of Maryland at College Park

2013 Seminar talk. University of Texas at Austin

2013 Invited talk. Chinese Academy of Sciences, China

2012 Invited talk. Microsoft Faculty Summit

2012 Invited talk. Computer Science Center, Shangdong Academy of Sciences, China

2012 Invited talk. Computer Science, École Polytechnique Fédérale de Lausanne (EPFL), Switzerland

2012 Seminar talk. Computer Science, University of Illinois at Urbana-Champaign

2011 Invited talk. IBM T. J. Watson Research Center

2011 Seminar talk. CyLab, Carnegie Mellon University

2011 Seminar talk. Computer Science Department, North Carolina State University

2010 CERIAS seminar talk, Purdue University.

2010 IPAM Workshop on Statistical and Learning- Theoretic Challenges in Data Privacy

2009 Invited talk. Microsoft Research Asia.

2009 CERIAS seminar, Purdue University.

2008 Seminar talk. Computer Science Department, North Carolina State University.

2008 Seminar talk. Computer Science Department, Indiana University and Purdue University at Indianapolis.

2005 Panel: Attacks on and Security Measures for Ad Hoc Wireless Networks, American Association for the Advancement of Science annual Conference.

2002 Invited talk. Workshop on Multi-Agent Learning: Theory and Practice.

CURRENT AND PAST GRANTS

Total: around \$8.6 million; my share: around \$4.73 million

- NIH U01 (1U01EB023685-01): “Encryption Methods and Software for Privacy-Preserving Analysis of Biomedical Data”
Role: MPI (one of the two PIs on the project)
Amount: \$1,395,515
Time: From 9/30/2016 to 6/30/2019
(Subcontract to UCSD: \$453,137)
- NSF-CNS-1618493: “TWC: Small: Safeguarding Mobile Cloud Services: New Challenges and Solutions”
Role: Sole PI
Amount: \$499,968
Time: From 9/01/2016 to 8/31/2019
- Army Research Office: “How to Compose Security Protection for Third-Party Applications”
Role: PI
Amount: \$550,000
Time: From 3/01/2016 to 2/28/2019
(Subcontract to Purdue: \$252,999)
- Gift Grant from Samsung Research
Role: Sole PI
Amount: \$50,000
- NSF-CNS-1527141: “TWC: Small: Understanding and Mitigating the Security Hazards of Mobile Fragmentation”
Role: Sole PI
Amount: \$498,897
Time: From 10/01/2015 to 9/30/2018
- NSF-CNS-1408874: “TWC: Medium: Collaborative: Broker Leads for Privacy-Preserving Discovery in Health Information Exchange”
Role: IU PI (the project is led by UIUC)
Amount: \$360,000 (total \$1.05 million)
Time: From 9/01/2014 to 8/31/2018
- NIH R01 (1R01HG007078-01): “Privacy Preserving Technologies for Human Genome Data Analysis and Dissemination”

Role: Contact PI (Project Leader)
Amount: \$900,000
Time: From 9/23/2013 to 6/30/2016
(Subcontract to UCSD: \$272,025)

- NSF-CNS-1223495: “TWC: Small: Secure Data-Intensive Computing on Hybrid Clouds”
Role: PI
Amount: \$500,000
Time: From 9/01/2012 to 8/31/2015
- NSF-CNS-1223477: “TWC: Small: Knowing Your Enemy: Understanding and Counteracting Web Malvertising”
Role: Sole PI
Amount: \$478,160
Time: From 9/01/2012 to 8/31/2015
- NSF-CNS-1117106: "TC: Small: Plugging Logic Loopholes in Hybrid Web Applications to Secure Web Commerce"
Role: Sole PI
Amount: \$499,987
Time: From 9/01/2011 to 8/31/2014
- NSF-CNS-1017782: “TC: Small: Reining in Side-Channel Information Leaks in the Software-as-a-Service Era”
Role: Sole PI
Amount: \$494,110
Time: From 9/01/2010 to 8/31/2014
- Gift Grant from Microsoft Research
Role: Sole PI
Amount: \$10,000
- NSF-CNS-0716292: “CT-ISG: Automatic Generation of Vaccine Exploits to Protect Commodity Software”
Role: Sole PI
Amount: \$320,000
REU Supplemental Award: \$19,200
Time: From 9/01/2007 to 8/31/2011
- AFRL SBIR Phase III, Net-Centric Sensor Grids, FA8650-09-D-1639: “Advanced Cloud Computing Technology for Sensor Grids”
Role: Co-PI
Amount: \$726,000
Time: From 7/1/2009 to 6/30/2010

- CACR Internal Grant (Gift from the Lilly Endowment Inc.) “Evaluation and Mitigation of Privacy Risks in Human Genome Research”
Role: PI
Amount: \$49,901.40
Time: From 7/01/2009 to 6/30/2010
- I3P/DHS: “Mitigating Insider Threat with Incentives” (IU part of the project "Human Behavior, Insider Threat and Awareness")
Role: PI
Amount: \$370,233.63
Time: From 4/01/2007 to 7/31/2009
- NSF-IIS-064621: "NSF Frontiers in Health Information Delivery Workshop"
Role: Co-PI
Amount: \$99,920
Time: From 10/01/2006 to 10/31/2007
- NSF-IIS-0549313: "A Test-bed for Personalized, Privacy-preserving and High Quality Health Information Delivery"
Role: Co-PI
Amount: \$100,000
Time: From 09/15/2005 to 08/31/2007

PRESENTATIONS AT INDUSTRY CONFERENCES

- 2016 “Discovering and Exploiting Novel Security Vulnerabilities in Apple Zeroconf”.
Black Hat USA (Presented by L. Xing and X. Bai)
- 2016 “Dangerous Hare: Hanging Attribute References Hazards Due to Vendor Customization”. Black Hat USA (Presented by N. Zhang)

PATENTS

1. X. Wang, H. Tang, Y. Chen and B. Peng, “Secure and Scalable Mapping of Human Sequencing Reads on Hybrid Clouds”. US9276911
2. Y. Xie, F. Yu, Z. Li and X. Wang, “Determining Legitimate and Malicious Advertisements Using Advertising Delivery Sequences”. US20130339158 A1
3. L. Xing and X. Wang, “Detection of Pileup Vulnerabilities in Mobile Operating Systems”. US9386027 B2

RESEARCH AREAS

Data-Centric Security, Mobile Security, Healthcare Security and Privacy (Human Genome Privacy in particular), Cloud and Web Security, Game-Theoretic Incentive Engineering and its Application to Information Security

PUBLICATIONS

I am considered to be one of the top 10 authors on leading security venues in the past 17 years, according to the statistics: <http://s3.eurecom.fr/~balzarot/notes/top4/index.html>

1. X. Mi, X. Feng, X. Liao, B. Liu, X. Wang, F. Qian, Z. Li, S. Alrwais, L. Sun, Y. Liu, 2019 “Residential Evil: Understanding Residential IP Proxy as a Dark Service”. Accepted by the 40th IEEE Symposium on Security and Privacy (IEEE S&P)
2. X. Zhang, Y. Zhang, Q. Mo, H. Xia, Z. Yang, M. Yang, X. Wang, L. Lu, H. Duan, 2018 “An Empirical Study of Web Resource Manipulation in Real-World Mobile Applications”. Accepted by the 27th USENIX Security Symposium (Security).
3. X. Yuan, Y. Chen, Y. Zhao, Y. Long, X. Liu, K. Chen, S. Zhang, H. Huang, X. Wang, C. Gunter, 2018 “CommanderSong: A Systematic Approach for Practical Adversarial Voice Recognition”. Accepted by the 27th USENIX Security Symposium (Security).
4. K. Yuan, X. Liao, X. Wang, 2018 “Reading Thieves’ Cant: Automatically Identifying and Understanding Dark Jargons from Cybercrime Marketplaces”. Accepted by the 27th USENIX Security Symposium (Security).
5. G. Chen, W. Wang, T. Chen, S. Chen, Y. Zhang, X. Wang, T. Lai, D. Lin, 2018 “Racing in Hyperspace: Closing Hyper-Threading Side Channels on SGX with Contrived Data Races”. In Proceedings of the 39th IEEE Symposium on Security and Privacy (IEEE S&P)
6. J. Chen, W. Diao, Q. Zhao, C. Zuo, Z. Lin, X. Wang, W. Lau, M. Sun, R. Yang, K. Zhang, 2018 “IoTfuzzer: Discovering Memory Corruptions in IoT Through App-based Fuzzing”. In Proceedings of the 25th Annual Network and Distributed System Security Symposium (NDSS)
7. X. Zhang, X. Wang, X. Bai, Y. Zhang, X. Wang, 2018 “OS-level Side Channels without Procs: Exploring Cross-App Information Leakage on iOS”. In Proceedings of the 25th Annual Network and Distributed System Security Symposium (NDSS)
8. Y. Nan, Z. Yang, X. Wang, Y. Zhang, D. Zhu, M. Yang, 2018 “Finding Clues for Your Secrets: Semantics-Driven, Learning-Based Privacy Discovery in Mobile Apps”. In Proceedings of the 25th Annual Network and Distributed System Security Symposium (NDSS)
9. Y. Duan, M. Zhang, A. Bhaskar, H. Yin, X. Pan, T. Li, X. Wang, X. Wang, 2018 “Things You May Not Know About Android (Un)Packers: A Systematic Study based on Whole-System Emulation”. In Proceedings of the 25th Annual Network and Distributed System Security Symposium (NDSS)

10. P. Wang, X. Mi, X. Liao, X. Wang, K. Yuan, F. Qian, R. Beyah, 2018 “Game of Missuggestions: Semantic Analysis of Search-Autocomplete Manipulations”. In Proceedings of the 25th Annual Network and Distributed System Security Symposium (NDSS)
11. J. Tang, A. Korolova, X. Bai, X. Wang, X. Wang, 2017 “Privacy Loss in Apple's Implementation of Differential Privacy on macOS 10.12”. Preprint, arXiv: 1709.02753.
12. K. Chen, T. Li, B. Ma, P. Wang, X. Wang, P. Zong, 2017 “Filtering for Malice Through the Data Ocean: Large-Scale PHA Install Detection at the Communication Service Provider Level”. In Proceedings of the 20th International Symposium on Research in Attacks, Intrusions and Defenses (RAID).
13. Y. Chen, W. You, Y. Lee, K. Chen, X. Wang, W. Zou, 2017 “Mass Discovery of Android Traffic Imprints through Instantiated Partial Execution”. In Proceedings of the 24th ACM Conference on Computer and Communications Security (CCS)
14. T. Li, X. Wang, M. Zha, K. Chen, X. Wang, L. Xing, X. Bai, N. Zhang, X. Han, 2017 “Unleashing the Walking Dead: Understanding Cross-App Remote Infections on Mobile WebViews”. In Proceedings of the 24th ACM Conference on Computer and Communications Security (CCS).
15. W. You, P. Zong, K. Chen, X. Wang, X. Liao, P. Bian, B. Liang, 2017 “SemFuzz: Semantics-based Automatic Generation of Proof-of-Concept Exploits”. In Proceedings of the 24th ACM Conference on Computer and Communications Security (CCS)
16. W. Wang, G. Chen, X. Pan, Y. Zhang, X. Wang, V. Bindshaedler, H. Tang, C. Gunter, 2017 “Leaky Cauldron on the Dark Land: Understanding Memory Side-Channel Hazards in SGX”. In Proceedings of the 24th ACM Conference on Computer and Communications Security (CCS).
17. X. Mi, F. Qian, Y. Zhang, X. Wang, 2017 “An Empirical Characterization of IFTTT: Ecosystem, Usage and Performance”. In Proceedings of the 17th ACM Internet Measurement Conference (IMC).
18. X. Bai, Z. Zhou, X. Wang, Z. Li, X. Mi, N. Zhang, T. Li, S. Hu, K. Zhang, 2017 “Picking Up My Tab: Understanding and Mitigating Synchronized Token Lifting and Spending in Mobile Payment”. In Proceedings of the 26th USENIX Security Symposium (Security).
19. Y. Tian, N. Zhang, Y. Lin, X. Wang, B. Ur, X. Guo, P. Tague, 2017 “SmarthAuth: User-Centered Authorization for the Internet of Things”. In Proceedings of the 26th USENIX Security Symposium (Security)
20. S. Alrwais, X. Liao, X. Mi, P. Wang, X. Wang, F. Qian and R. Beyah, D. McCoy, 2017 “Under the Shadow of Sunshine: Understanding and Detecting BulletPoof Hosting on Legitimate Service Provider Networks”. In Proceedings of the 38th IEEE Symposium on Security and Privacy (IEEE S&P)
21. Y. Lee, T. Li, N. Zhang, S. Demetriou, M. Zha, X. Wang, K. Chen, X. Zhou, X. Han, M. Grace, 2017 “Ghost Installer in the Shadow: Security Analysis of App Installation on Android”. In Proceedings of the 47th IEEE/IFIP International Conference on Dependable Systems and Networks (DSN 2017)
22. X. Liu, T. Chen, F. Qian, Z. Guo, F. Lin, X. Wang, K. Chen, 2017 “Characterizing Smartwatch Usage in the Wild”. In Proceedings of the 15th ACM International Conference on Mobile Systems, Applications, and Services (ACM MobiSys)

23. X. Pan, X. Wang, Y. Duan, X. Wang, H. Ying, 2017 “Dark Hazard: Learning-based, Large-Scale Discovery of Hidden Sensitive Operations in Android Apps”. In Proceedings of the 24th Annual Network and Distributed System Security Symposium (NDSS)
24. Y. Nan, Z. Yang, M. Yang, S. Zhou, Y. Zhang, G. Gu, X. Wang, L. Sun, 2017 “Identifying User-Input Privacy in Mobile Applications at a Large Scale”. In the IEEE Transactions on Information Forensics & Security. (Extension of 40)
25. X. Mi, F. Qian and X. Wang, 2016 “SMig: Stream Migration Extension for HTTP/2”. In Proceedings of the 12th International Conference on Emerging Networking Experiments and Technologies (CoNEXT).
26. S. Alrwais, K. Yuan, E. Alowaisheq, X. Liao, A. Oprea, X. Wang and Z. Li, 2016 “Catching Predators at Watering Holes: Finding and Understanding Strategically Compromised Websites”. In Proceedings of the 32nd Annual Computer Security Applications Conference (ACSAC).
27. X. Liao, K. Yuan, X. Wang, Z. Li, L. Xing and R. Beyah, 2016 “Acing the IOC Game: Toward Automatic Discovery and Analysis of Open-Source Cyber Threat Intelligence”. In Proceedings of the 23rd ACM Conference on Computer and Communications Security (CCS)
28. X. Liao, S. Alrwais, K. Yuan, L. Xing, X. Wang, S. Hao and R. Beyah, 2016 “Lurking Malice in the Cloud: Understanding and Detecting Cloud Repository as a Malicious Service”. In Proceedings of the 23rd ACM Conference on Computer and Communications Security (CCS)
29. X. Bai, L. Xing, N. Zhang, X. Wang, X. Liao, T. Li and S. Hu, 2016 “Staying Secure and Unprepared: Understanding and Mitigating the Security Risks of Apple ZeroConf”. In Proceedings of the 37th IEEE Symposium on Security and Privacy (IEEE S&P)
30. K. Chen, X. Wang, Y. Chen, P. Wang, Y. Lee, X. Wang, B. Ma, A. Wang, Y. Zhang, W. Zou, 2016 “Following Devil's Footprints: Cross-Platform Analysis of Potentially Harmful Libraries on Android and iOS”. In Proceedings of the 37th IEEE Symposium on Security and Privacy (IEEE S&P)
31. X. Liao, K. Yuan, X. Wang, Z. Pei, H. Yang, J. Chen, H. Duan, K. Du, E. Alowaisheq, S. Alrwais, L. Xing and R. Beyah, 2016 “Seeking Nonsense, Looking for Trouble: Efficient Promotional-Infection Detection through Semantic Inconsistency Search”. In Proceedings of the 37th IEEE Symposium on Security and Privacy (IEEE S&P)
32. S. Li, N. Bandeira, X. Wang and H. Tang, 2016 “On the Privacy Risks of Sharing Clinical Proteomics Data”. In Proceedings of AMIA 2016 Joint Summits on Translational Science
33. V. Bindschaedler, M. Naveed, X. Pan, X. Wang and Y. Huang, 2015 “Practicing Oblivious Access on Cloud Storage: the Gap, the Fallacy and the New Way Forward”. In Proceedings of the 22nd ACM Conference on Computer and Communications Security (CCS).
34. Y. Chen, T. Li, X. Wang, K. Chen and X. Han, 2015 “Perplexed Messengers from the Cloud: Automated Security Analysis of Push-Messaging Integrations”. In Proceedings of the 22nd ACM Conference on Computer and Communications Security (CCS)
35. Y. Aafer, N. Zhang, Z. Zhang, X. Zhang, K. Chen, X. Wang, X. Zhou, W. Du and M. Grace, 2015 “Hare Hunting in the Wild Android: A Study on the Threat of Hanging Attribute References”. In Proceedings of the 22nd ACM Conference on Computer and Communications Security (CCS)

36. X. Wang, Y. Huang, Y. Zhao, H. Tang, X. Wang and D. Bu, 2015 “Efficient Genome-Wide, Privacy-Preserving Similar Patient Query based on Private Edit Distance”. In Proceedings of the 22nd ACM Conference on Computer and Communications Security (CCS)
37. L. Xing, X. Bai, T. Li, X. Wang, K. Chen, X. Liao, S. Hu and X. Han, 2015 “Cracking App Isolation on Apple: Unauthorized Cross-App Resource Access on MAC OS X and iOS”. In Proceedings of the 22nd ACM Conference on Computer and Communications Security (CCS)
38. Y. Chen, V. Bindschaedler, X. Wang, S. Berger and D. Pendarakis, 2015, “Elite: Automatic Orchestration of Elastic Detection Services to Secure Cloud Hosting”, In Proceedings of the 18th International Symposium on Research in Attacks, Intrusions and Defenses (RAID).
39. K. Chen, P. Wang, Y. Lee, X. Wang, N. Zhang, H. Huang, W. Zou and P. Liu, 2015 “Finding Unknown Malice in 10 Seconds: Mass Vetting for New Threats at the Google-Play Scale”. In Proceedings of the 24th USENIX Security Symposium (Security).
40. Y. Nan, M. Yang, Z. Yang, S. Zhou, G. Gu and X. Wang, 2015 “UIPicker: User-Input Privacy Identification in Mobile Applications”. In Proceedings of the 24th USENIX Security Symposium (Security)
41. N. Zhang, K. Yuan, M. Naveed, X. Zhou and X. Wang, 2015 “Leave Me Alone, App-level Protection Against Runtime Information Gathering on Android”. In Proceedings of the 36th IEEE Symposium on Security and Privacy (IEEE S&P)
42. S. Demetriou, X. Zhou, M. Naveed, Y. Lee, K. Yuan, X. Wang and C. Gunter, 2015 “What’s in Your Dongle and Bank Account? Mandatory and Discretionary Protection of Android External Resources”. In Proceedings of the 22nd Annual Network and Distributed System Security Symposium (NDSS)
43. Y. Zhao, X. Wang, X. Jiang, L. Ohno-Machado and H. Tang, 2015 “Choosing Blindly but Wisely: Differentially Private Solicitation of DNA Datasets for Disease Marker Discovery”. *Journal of the American Medical Informatics Association (JAMIA)*
44. M. Naveed, S. Agrawal, M. Prabhakaran, X. Wang, E. Ayday, J. Hubaux and C. Gunter, 2014 “Controlled Functional Encryption”. In Proceedings of the 21st ACM Conference on Computer and Communications Security (CCS)
45. T. Li, X. Zhou, L. Xing, Y. Li, M. Naveed, X. Wang and X. Han, 2014 “Mayhem in the Push Clouds: Understanding and Mitigating Security Hazards in Mobile Push-Messaging Services”. In Proceedings of the 21st ACM Conference on Computer and Communications Security (CCS)
46. S. Alrwais, K. Yuan, E. Alowaisheq, Z. Li and X. Wang, 2014 “Understanding the Dark Side of Domain Parking”. In Proceedings of the 23rd USENIX Security Symposium (Security).
47. L. Xing, X. Pan, R. Wang, K. Yuan and X. Wang, 2014 “Upgrading Your Android, Elevating My Malware: Privilege Escalation Through Mobile OS Updating”. In Proceedings of the 35th IEEE Symposium on Security and Privacy (IEEE S&P).
48. X. Zhou, Y. Lee, N. Zhang, M. Naveed and X. Wang, 2014 “The Peril of Fragmentation: Security Hazards in Android Device Driver Customizations”. In Proceedings of the 35th IEEE Symposium on Security and Privacy (IEEE S&P).
49. Z. Li, S. Alrwais, X. Wang and E. Alowaisheq, 2014 “Hunting the Red Fox Online: Understanding and Detection of Mass Redirect-Script Injections”. In Proceedings of the 35th IEEE Symposium on Security and Privacy (IEEE S&P)

50. A. Zhang, X. Xie, K. Chang, C. Gunter, J. Han, X. Wang, 2014 “Privacy Risk in Anonymized Heterogeneous Information Networks”. In Proceedings of the 16th International Conference on Extending Database Technology (EDBT)
51. C. Lin, H. Li, X. Zhou and X. Wang, 2014 “Screenmilk: How to Milk Your Android Screen for Secrets”. In Proceedings of the 21st Annual Network and Distributed System Security Symposium (NDSS).
52. M. Naveed, X. Zhou, S. Demetriou, X. Wang and C. Gunter, 2014 “Inside Job: Understanding and Mitigating the Threat of External Device Misbonding on Android”. In Proceedings of the 21st Annual Network and Distributed System Security Symposium (NDSS).
53. A. Das, J. Bonneau, M. Caesar, N. Borisov and X. Wang, 2014 “The Tangled Web of Password Reuse”. In Proceedings of the 21st Annual Network and Distributed System Security Symposium (NDSS).
54. F. Zhang, W. He, Y. Chen, Z. Li, X. Wang, S. Chen and X. Liu, 2013 “Thwarting Wi-Fi Side-Channel Analysis through Traffic Demultiplexing”. IEEE Transactions on Wireless Communications, Volume 13, Issue 1.
55. X. Zhou, S. Demetriou, D. He, N. Muhammad, X. Pan, X. Wang, C. Gunter and K. Nahrstedt, 2013 “Identity, Location, Disease and More: Inferring Your Secrets from Android Public Resources”. In Proceedings of the 20th ACM Conference on Computer and Communications Security (CCS).
56. R. Wang, L. Xing, X. Wang and S. Chen, 2013 “Unauthorized Origin Crossing on Mobile Platforms: Threats and Mitigation”. In Proceedings of the 20th ACM Conference on Computer and Communications Security (CCS).
57. Z. Li, S. Alrwais, Y. Xie, F. Yu and X. Wang, 2013 “Finding the Linchpins of the Dark Web: a Study on Topologically Dedicated Hosts on Malicious Web Infrastructures”. In Proceedings of the 34th IEEE Symposium on Security and Privacy (IEEE S&P).
58. L. Xing, Y. Chen, X. Wang and S. Chen, 2013 “InteGuard: Toward Automatic Protection of Third-Party Web Service Integrations”. In Proceedings of the 20th Annual Network and Distributed System Security Symposium (NDSS).
59. Z. Li, K. Zhang, Y. Xie, F. Yu and X. Wang, 2012 “Knowing Your Enemy: Understanding and Detecting Malicious Web Advertising”. In Proceedings of the 19th ACM Conference on Computer and Communications Security (CCS).
60. R. Wang, S. Chen and X. Wang, 2012 “Signing Me onto Your Accounts through Facebook and Google: a Traffic-Guided Security Study of Commercially Deployed Single-Sign-On Web Services”. In Proceedings of the 33rd IEEE Symposium on Security and Privacy (IEEE S&P).
61. Y. Chen, B. Peng, X. Wang and H. Tang, 2012 “Large-Scale Privacy-Preserving Mappings of Human Genomic Sequences on Hybrid Clouds”. In Proceedings of the 19th Annual Network and Distributed System Security Symposium (NDSS).
62. K. Zhang, X. Zhou, Y. Chen, X. Wang and Y. Ruan, 2011 “Sedic: Privacy-Aware Data Intensive Computing on Hybrid Clouds”. In Proceedings of the 18th ACM Conference on Computer and Communications Security (CCS).
63. X. Zhou, B. Peng, Y. Li, Y. Chen, H. Tang and X. Wang, 2011 “To Release or Not to Release: Evaluating Information Leaks in Aggregate Human-Genome Data”. In Proceedings of European Symposium on Research in Computer Security (ESORICS).

64. R. Wang, S. Chen, X. Wang, and S. Qadeer, 2011 "How to Shop for Free Online – Security Analysis of Cashier-as-a-Service Based Web Stores". In Proceedings of the 32nd IEEE Symposium on Security and Privacy (IEEE S&P Oakland).
65. D. Liu, N. Li, X. Wang and J. Camp, 2011 "Security Risk Management Using Incentives". IEEE Security & Privacy Magazine, Vol. 9, Num. 6. (Extension of 66)
66. D. Liu, N. Li, X. Wang and J. Camp, 2011 "Beyond Risk-Based Access Control: Towards Incentive-Based Access Control". Short paper. In Proceedings of the 15th International Conference on Financial Cryptography and Data Security (FC).
67. R. Schlegel, K. Zhang, X. Zhou, M. Intwala, A. Kapadia and X. Wang, 2011 "Soundcomber: A Stealthy and Context-Aware Sound Trojan for Smartphones". In Proceedings of the 18th Annual Network and Distributed System Security Symposium (NDSS).
68. A. Kapadia, S. Myers, X. Wang and G. Fox. 2011 "Toward Securing Sensor Clouds". In Proceedings of the 12th International Symposium on Collaborative Technologies and Systems (CTS).
69. Z. Li and X. Wang, 2010 "FIRM: Capability-based Inline Mediation of Flash Behaviors". In Proceedings of the 26th Annual Computer Security Applications Conference (ACSAC).
70. K. Zhang, Z. Li, R. Wang, X. Wang and S. Chen, 2010 "Sidebuster: Automated Detection and Quantification of Side-Channel Leaks in Web Application Development". In Proceedings of the 17th ACM Conference on Computer and Communications Security (CCS).
71. Z. Li, K. Zhang and X. Wang, 2010 "Mash-IF: Practical Information-Flow Control within Client-side Mashups". In Proceedings of the 40th Annual IEEE/IFIP International Conference on Dependable Systems and Networks (DSN).
72. A. Kapadia, S. Myers, X. Wang and G. Fox. 2010 "Secure Cloud Computing with Brokered Trusted Sensor Networks". In Proceedings of the 11th International Symposium on Collaborative Technologies and Systems (CTS).
73. S. Chen, R. Wang, X. Wang and K. Zhang, 2010 "Side-Channel Leaks in Web Applications: a Reality Today, a Challenge Tomorrow". In Proceedings of the 31st IEEE Symposium on Security and Privacy (IEEE S&P Oakland).
74. X. Wang, P. Golle, M. Jakobsson and A. Tsow, 2009 "Deterring Voluntary Trace Disclosure in Re-encryption Mix Networks". The ACM Transactions on Information and System Security (TISSEC). (Extension of 98)
75. R. Wang, X. Wang, Z. Li, H. Tang, M. Reiter and Z. Dong, 2009 "Privacy-Preserving Genomic Computation Through Program Specialization". In Proceedings of the 16th ACM Conference on Computer and Communications Security (CCS)
76. R. Wang, Y. Li, X. Wang, H. Tang and X. Zhou, 2009 "Learning Your Identity and Disease from Research Papers: Information Leaks in Genome Wide Association Study". In Proceedings of the 16th ACM Conference on Computer and Communications Security (CCS)
77. K. Zhang and X. Wang, 2009 "Peeping Tom in the Neighborhood: Keystroke Eavesdropping on Multi-user Systems". In Proceedings of the USENIX Security Symposium (Security)
78. C. Kolbitsch, P. Milani, C. Kruegel, E. Kirda, X. Zhou and X. Wang, 2009 "Effective and Efficient Malware Detection at the End Host". In Proceedings of the USENIX Security Symposium (Security)

79. D. Liu, L. J Camp and X. Wang, 2009 "Mitigating Insider Threats with Incentives". In Proceedings of the 13th International Conference on Financial Cryptography and Data Security (FC).
80. X. Wang, Z. Li and R. Wang. 2008 "Leapfrog: Protecting Sensitive Information within Commodity Applications". IU-CS TR670.
81. J. Li, N. Li, X. Wang and T. Yu, 2008 "Denial of Service Attacks and Defenses in Decentralized Trust Management". The International Journal of Information Security (IJIS). (Extension of 96)
82. X. Wang and M. Reiter. 2008 "Using Web-Referral Architecture to Mitigate Denial-of-Service Threats". The IEEE Transactions on Dependable and Secure Computing (TDSC). (Extension of 95)
83. D. Liu, X. Wang and L. J. Camp, 2008 "Game-theoretic Modeling and Analysis of Insider Threats". International Journal of Critical Infrastructure Protection. (Extension of 87)
84. R. Wang, X. Wang, K. Zhang and Z. Li. 2008 "Towards Automatic Reverse Engineering of Security Configurations". In Proceedings of the 15th ACM Conference on Computer and Communications Security (CCS).
85. R. Wang, X. Wang and Z. Li. 2008 "Panalyst: Privacy-Aware Remote Error Analysis". In Proceedings of the 17th USENIX Security Symposium (Security).
86. Z. Li, X. Wang, Z. Liang and M. Reiter. 2008 "AGIS: Automatic Generation of Infection Signatures". In Proceedings of the 38th Annual IEEE/IFIP International Conference on Dependable Systems and Networks (DSN).
87. D. Liu, X. Wang and L. J. Camp. 2008 "Game Theoretic Modeling and Analysis of Insider Threats". In Proceedings of IFIP WG 11.10 International Conference on Critical Infrastructure Protection.
88. C. Richard, G. Philippe, M. Jakobsson, L. Wang and X. Wang. 2008 "Making CAPTCHAs Clickable". In Proceedings of Workshop on Mobile Computing Systems and Applications (HotMobile).
89. X. Wang, Z. Li, N. Li and J. Choi. 2008 "PRECIP: Towards Practical and Retrofittable Confidential Information Protection". In Proceedings of the 15th Annual Network and Distributed System Security Symposium (NDSS).
90. X. Wang. 2008 "Case Study: A Defense-in-Depth Framework Against Spyware". A book chapter in the book "Crimeware", edited by M. Jakobsson and Z. Ramzan, Addison-Wesley Professional.
91. X. Wang, Z. Li, J. Xu, M. Reiter, C. Kil and J. Choi. 2008 "Fast and Black-box Exploit Detection and Signature Generation for Commodity Software". The ACM Transactions on Information and System Security (TISSEC). (Extension of 94)
92. X. Wang and M. Reiter. 2007 "A Multi-layer Framework for Puzzle-based Denial-of-Service Defense". International Journal of Information Security, August 2007. (Extension of 103 and 101)
93. Z. Li, X. Wang and J. Choi. 2007 "Spyshield: Preserving privacy from spyware add-ons". In Proceedings of the Recent Advance in Intrusion Detection (RAID).

94. X. Wang, Z. Li, J. Xu, M. Reiter, C. Kil and J. Choi. 2006 "Packet Vaccine: Black-box Exploit Detection and Signature Generation". In Proceedings of the 13th ACM Conference on Computer and Communications Security (CCS).
95. X. Wang and M. Reiter. 2006 "WRAPS: Denial-of-Service Defense through Web Referrals". In Proceedings of the 25th IEEE Symposium on Reliable Distributed Systems (SRDS).
96. J. Li, N. Li, X. Wang, and T. Yu. 2006 "Denial of Service Attacks and Defenses in Decentralized Trust Management". In Proceedings of the Second International Conference on Security and Privacy in Communication Networks (SecureComm).
97. Y. Li, J. Mostafa and X. Wang. 2006 "A Privacy Enhancing Infomediary for Retrieving Personalized Health Information from Web". SIGIR 2006 Workshop on Personal Information Management.
98. P. Golle, X. Wang, M. Jakobsson and A. Tsow. 2006 "Deterring Voluntary Trace Disclosure in Re-encryption Mix Networks". In Proceedings of IEEE Symposium on Security and Privacy (IEEE S&P Oakland).
99. M. Reiter, X. Wang and M. Wright. 2005 "Building a Reliable Mix Network through Fair Exchange". In Proceedings of the 3th International Conference on Applied Cryptography and Network Security (ACNS2005). LNCS 3531, Springer-Verlag.
100. M. Jakobsson, X. Wang and S. Wetzel. 2004 "Stealth Attacks on Vehicular Wireless Networks". Invited paper. In Proceedings of IEEE Vehicular Technology Conference 2004-Fall "Wireless Technologies for Global Security" (VTC).
101. X. Wang, M. Reiter. 2004 "Mitigating Bandwidth-Exhaustion Attacks using Congestion Puzzles". In Proceedings of the 11th ACM Conference on Computer and Communications Security (CCS).
102. M. Reiter, X. Wang. 2004 "Fragile Mixing". In Proceedings of 11th ACM Conference on Computer and Communications Security (CCS).
103. X. Wang and M. Reiter. 2003. "Defending Against Denial-of-Service Attacks with Puzzle Auctions", In Proceedings of IEEE Symposium on Security and Privacy (IEEE S&P Oakland).
104. X. Wang, T. Sandholm. 2003. "Learning Near-Pareto-Optimal Conventions in Polynomial Time". Proceedings of the 17th Neural Information Processing Systems: Natural and Synthetic conference (NIPS).
105. T. Sandholm and X. Wang. 2002. "(Im)possibility of Safe Exchange Mechanism Design". Proceedings of National Conference on Artificial Intelligence (AAAI). pages: 338-344. Oral presentation track.
106. X. Wang and T. Sandholm. 2002. "Reinforcement Learning to Play An Optimal Nash Equilibrium in Team Markov Games", Proceedings of the 16th Neural Information Processing Systems: Natural and Synthetic conference (NIPS).
107. X. Wang, K. Hosanagar, R. Krishnan and P. Khosla. 2002. "Equilibrium Reputation Mechanism for Mobile Agent based Electronic commerce". Proceedings of ACM International conference on Autonomous Agent and Multi-agent Systems (AAMAS), pages: 308-309, Poster paper.
108. X. Wang, X. Yi, R. Krishnan, C. Siew and P. Khosla. 2002. "Mobile Agent Based Auctionlike Negotiation in Internet Retail Commerce". Book Chapter. J. Segovia, P.S. Szczepaniak, M. Niedzwiedzinski (Eds.) E-Commerce and Intelligent Methods, Studies in

Fuzziness and Soft Computing, Vol. 105., pages: 342-362. ISBN 3-7908-1499-7. Published by Springer-Verlag.

109. X. Wang, P. Khosla and R. Krishnan. 2001. "Optimize Security Mechanism for Electronic Commerce". Montreal, Canada. Proceedings of the 4th International Workshop on Deception, Fraud and Trust in Agent Societies, pages: 113-124.
110. X. Wang, S. Zhang, P. Khosla, H. Kiliccote, C. Zhang and K. Lam. 2000. "Anytime Algorithm for Agent-Mediated Merchant Information Gathering". Proceedings of ACM International Conference on Autonomous Agents (ACM AA), pages: 333-340, ACM press.
111. X. Wang, H. Kiliccote and P. Khosla. 2000. "Multiagent Learning to Secure Computing Systems". Proceedings of International Conference on Multiagent System (ICMAS), pages: 459-460. Poster paper.
112. X. Yi, C. Siew, X. Wang and E. Okamoto. 2000. "A Secure Agent-based Framework for Internet Trading in Mobile Computing Environments". Journal of Distributed and Parallel Databases, 8, pages: 85-119, Kluwer Academic Publishers.
113. X. Wang, X. Yi, K. Lam, C. Zhang and E. Okamoto. 1999. "Secure Agent-Mediated Auctionlike Negotiation Protocol for Internet Retail Commerce". Proceedings of the third International workshop on Cooperative Information Agents (CIA), pages: 291-302. Springer-Verlag, Lecture Notes in Artificial Intelligence, Vol. 1652.
114. X. Wang, K. Lam and X. Yi. 1998. "Secure Agent-Mediated Mobile Payment". Proceeding of the first Pacific Rim International Workshop on Multiagent Systems (PRIMA 1998), pages: 162-173. Lecture Notes in Artificial Intelligence. Vol. 1599, Springer-Verlag.
115. X. Yi, X. Wang, K. Lam, E. Okamoto and D. Hsu. 1998. "A Secure Auctionlike Negotiation Protocol for Agent-based Internet Trading", Proceedings of the 17th IEEE Symposium on Reliable Distributed Systems (SRDS), pages: 197-203, IEEE press.
116. X. Wang, X. Yi, K. Lam and E. Okamoto. 1998. "Secure Information Gathering Agent for Internet Trading", proceedings of the 4th Australian Workshop on Distributed Artificial Intelligence in joint with the 8th Australian Joint Conference on Artificial Intelligence (DAI 1998), pages: 183-193. Australia, Lecture Notes in Artificial Intelligence, Springer-Verlag, Vol. 1544.
117. X. Yi, X. Wang and K. Lam. 1998. "A Secure Intelligent Trade Agent System", Proceedings of Trends in Distributed Systems for Electronic Commerce (International IFIP/GI Working Conference, 1998), pages: 218-228, Hamburg, Germany, Lecture Notes in Computer Science, Vol.1402, Springer-Verlag.
118. X. Yi, X. Wang and K. Lam. 1998. "An Intelligent Agent Architecture for Securing Internet Trading", Proceedings of the 14th International Information Security Conference (IFIP/SEC).

MENTORING

Since 2004, I have graduated 10 PhD students. Also, I am unofficially advising a group of students from other institutions, including UIUC, Georgia Tech, Tsinghua University, Peking University, Chinese Academy of Science and others. Here is the information for those who finished their programs or PostDoc studies

PHD Students Graduated from IU:

Debin Liu (co-advised with Jean Camp): graduated in 2011, first job at PayPal, now founder of a Chinese Startup

Rui Wang: graduated in 2013, first job at Microsoft Research, now founder of a startup

Kehuan Zhang: graduated in 2012, first job at Chinese University at Hong Kong (faculty)

Zhou Li: graduated in 2013, first job at EMC RSA Lab, now faculty at UC Irvine

Xiaoyong Zhou: graduated in 2014, first job at Samsung Research America, now with Google

Yangyi Chen: graduated in 2015, first job at Google

Yongan Zhao (co-advised with Haixu Tang): graduated at 2016, first job at Seven Bridge Genomics

Luyi Xing: graduated in 2017, first job at Amazon, now faculty at IU

Sumayah Alrwais: graduated in 2017, first job at King Saud University (faculty)

Nan Zhang: graduated in 2018, first job at Facebook

Unofficially Advised PHD Students Graduated from Other Schools:

Muhammad Naveed (UIUC, advised by Carl Gunter): graduated in 2016, first job at University of Southern California (faculty)

Xiaojing Liao (Georgia Tech, advised by Raheem Beyah): graduated in 2017, first job at William and Mary College (faculty), now faculty at IU

Xiaolong Bai (Tsinghua University): graduated in 2017, first job at Alibaba

PAST POSTDOC Fellows:

Kai Chen: from 2014 to 2015, now Full Professor at Chinese Academy of Science

Zhuowei Li: from 2005 to 2008, now Principal Software Engineering Manager at Microsoft